

BEGIN

REEL # 34

BANACH, A.
to

BANACH, J., inz.; LUPINEK, M., inz. dr.; PETRAS, I., inz.; TRUKSA, V.

A magnetron amplifier for the 3 cm band (A 48). Sbor vak
elektrotech 4:5-15 '64.

1. Tesla, Pardubice (for Banach). 2. Research Institute of
Vacuum Electrical Engineering, Prague (for all except Banach).

BANACH, JERZY.

Krakow; cztery pory roku. W fotografii Henryka Hermanowicz.

Krakow, Poland. Wydawn. Literackie (1959(xii, 11 p., 160 illus.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

BANACH, Kazimierz

Ambitious plans of the crew of the Nizansk'e Forestry
Machine Construction Works in Niako. Mechanik 35 no.8:468
Ag '62.

BANACH, Kazimierz

Technological progress in the Nisko Forestry Industrial
Machine Building Work in Nisko. Mechanik 35 no.9:529
'62.

BANACH, M.

"Profitableness of the State Grain Board's own buying agencies in the Province of Wroclaw," Gospodarka Zbozowa, Warszawa, Vol 5, No 3, Mar. 1954, p. 3.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

BANACH, Mieczyslaw

Joining of conductors in fittings. Wlad elektrotechn 28 no.9:
276-277 S '61.

1. Politechnika, Poznan.

BANACH, Mieczyslaw

Selection of the size of the cross section of wires and fuses in mercury vapor lamp installations. Przegl elektrotechn 41 no.4: 141-143 Ap '65.

1. Poznan Technical University.

BANACH, Mieczysław.

Mercury lighting in industrial enterprises. Wiad elektrotechn
28 no.9:280-281 S '61.

1. Politechnika, Poznan.

BANACH, Mieczyslaw, mgr inż.

Determination of horizontal lighting intensity by the graphic logarithmic method. Wied. elektrotechn 28 no.1:6-7, 8 Ja '61.

1. Politechnika, Poznan.

BAKACH, S.

Role of mustard gas in treatment of gynecological inflammatory diseases.
Przegl. lek., Krakow 8 no.6:176-177 1952. (CLML 23:2)

1. Of the Obstetric-Gynecological Department (Head--Docent Maksymilian Seidler, M.D.) of Hospital imienia G. Narutowicza (Director--Stanislaw Bogdalski, M.D.) in Krakow.

BANACH, Stanislaw

Pulmonary and meningeal tuberculosis in adults. Gruzlica 22 no.8:
531-538 Aug 54.

1. Z Kliniki Chorob Nerwowych Akademii Medycznej w Gdansk.
Kierownik: prof. dr Z. Majewska.
(TUBERCULOSIS, PULMONARY, complications,
meningeal tuberc.)
(TUBERCULOSIS, MENINGEAL, complications,
pulm. tuberc.)

BANACH

BANACH, Stanislaw (Gdansk-Wrzeszcz, Al. K. Marksa 10 m 7.)

Internal hydrocephalus during tuberculous cerebrospinal meningitis in adults. Neur &c. polska 7 no.6:965-974 Nov-Dec 57.

1. Z Kliniki Chorob Nerwowych A. M. w Gdansku. Kierownik: prof. dr med. Z. Majewska.

(TUBERCULOSIS, MENINGEAL, compl.

hydrocephalus, internal (Pol))

(HYDROCEPHALUS, etiol. & pathogen.

meningeal tuberc., meningeal cerebrospinal (Pol))

BANACH, Stanislaw
BANACH, Stanislaw

Pneumocranium in tuberculous cerebrospinal meningitis in adults.
Nur &c. polska 7 no.6:975-980 Nov-Dec 57.

1. Z Kliniki Chorob Nerwowych A. M. w Gdansk. Kierownik: prof. dr
Z. Majewska.

(TUBERCULOSIS, MENINGEAL,
pneumoencephalography in diag. & ther. (Pol))
(VENTRICULOGRAPHY, in various dis.
pneumoencephalography in meningeal tuberc., diag. &
ther. value (Pol))

BANACH, Stanislaw

The testing of nivaquine therapy of periarthritis nodosa & arteritis temporalis. Polski tygod. lek. 13 no.23:876-878 9 June 58.

1. (Z Kliniki Chor. Nerwowych A. M. w Gdansk; kierownik: prof. dr Z. Majewska) Adres: Gdansk, ul. Debinki 7, Klinika Chorob Nerwowych A. M.
(CHLOROQUINE, ther. use
arteritis temporalis & periarthritis nodosa (Pol))
(ARTERITIS, ther.
chloroquine in arteritis temporalis (Pol))
(PERIARTHRITIS NODOSA, ther.
chloroquine (Pol))
(BRAIN, blood supply
arteritis temporalis, chloroquine ther. (Pol))

TAUBENFLIGEL, Wiktor; BANACH, Stanislaw

Arthropathic form of syringomyelia. Chir.narz.ruchu 24 no.3:241-247 '59.

1. Z III Kliniki Chirurgicznej AMG. Kierownik: prof.dr Z. Kieturakis i Kliniki Chorob Nerwowych AMG. Kierownik: prof.dr Z. Majewska.

(SYRINGOMYELIA case reports)

BAKACH, Stanislaw; SZ/LOZYNSKA, Katarzyna

Abdominal epilepsy. *Pediat.polska* 34 no.11: 1405-11 '59.

1. Z Kliniki Chorob Nerwowych A.M. w Gdansk. Kierownik: prof.dr.
med. Z. Majewska.
(EPILEPSY in inf. & child.)

GWOZDZIEWICZ, Jerzy; BANACH, Stanislaw; NAZAREWICZ, Teresa

A case of late myopath of the Hevin type. Neurol neurochir psych
12 no. 2. 1-300 Mr. 162.

1. Klinika Chorob Nerwowych, Akademia Medyczna, Gdansk (Kierownik:
prof. dr Z. Majewska) i Zaklad Anatomii Patologicznej, Akademia
Medyczna, Gdansk (Kierownik: prof. dr W. Czarnocki).

*

BANACH, Stanislaw; JANIKOWSKI, Tadeusz

A case of Ranzay-Hunt myoclonic cerebellar syndrome in an infant.
Neurol neurochir psych 12 no.3:433-436 My-Je '62.

1. Oddzial Neurologii Dzieciecej im. Janusza Korczaka, Klinika Chorob
Nerwowych, Akademia Medyczna, Gdansk. (Kierownik Kliniki: prof. dr
Z. Majewska).

*

BANACH, Stanislaw; JANIKOWSKI, Tadeusz

A case of Ramsey Hunt's myoclonic cerebellar dyssynergia in a small child. Neurologia etc., polska 12 no.3:433-436 '62.

1. Z Oddziału Neurologii Dziecięcej im. Janusza Korczaka Kliniki
Chorob Nerwowych AM w Gdansk Kierownik Kliniki: prof. dr Z. Majewska.
(CEREBELLAR DISEASES) (EPILEPSY)

GWOZDZIEWICZ, Jerzy; BANACH, Stanislaw; NAZAREWICZ, Teresa

A case of Nevin's type of late myopathy. Neurologia etc., polska 12
no.2:297-300 '62.

z Kliniki Chor. Nerwowych AM w Gdansk Kierownik: prof. dr
Z. Majewska i z Zakładu Anatomii Patologicznej AM w Gdansk
Kierownik: prof. dr W. Czarnocki.
(MUSCLES dis)

POLAND

SAWACH, Stanislaw; Clinic of Nervous Diseases (Klinika Chorob Nerwowych), AM [Akademia Medyczna -- Medical School] in Gdanek, Director: Prof Dr Z. WASTWISKA.

"Blood Supply and Oxidation of Cerebral Tissue"

Krakow, Przegląd Lekarski, Vol 18, No 12, 1962, pp 453-456.

Abstract: Methods based of Fick's principle for the study of blood supply and oxidation of cerebral tissue are discussed. The various physiological and pathological factors affecting blood supply and oxidation of cerebral tissue are surveyed. Some of the causes and treatment methods and drugs for brain circulation disorders -- studied on the basis of clinical experiments are discussed. Reference is made to the discrepancy between experimental data and the results obtained in the actual treatment of patients. 30 references, mostly Western.

1/1

BANACH, Stanislaw

Electrodiagnostic methods in childhood. Pol. tyd. lek. 20 no.37:
1397-1399 13 S '65.

1. Z Kliniki Chorob Nerwowych AM w Gdansk (Kierownik: prof. dr.
Z. Majewska).

Randomness and Independent Fields Studia
Math. 10: 157 (1948)
 A collection $\mathcal{C}$ of Boolean σ -algebras of subsets of a set is countably independent if any countable class of sets, any two distinct ones of which belong to different algebras of the collection, has a nonempty intersection. The principal theorem of the paper asserts that if, for each i , μ_i is a countably additive finite measure on A_i , then there exists a measure μ on the least Boolean σ -algebra containing all A_i such that μ is an extension of each μ_i and such that any countable class of sets, any two distinct ones of which belong to different algebras of the collection, is μ -stochastically independent. *R. Halmos (Chicago, Ill.)*

Source: Mathematical Reviews,

Vol 10, No. 9

Handwritten signature

P.T.A. BANACH, S.

Math. & Natural Science

848

331

Banach S. Mechanics. 2 Volumes. 3rd ed.

"Mechanika". Warszawa, 1950. Claydon, B., pp. 555.

Vector theory. Point kinematics. Dynamics of the centre of mass. Geometry of masses. System of the centre of mass. Statics of rigid bodies. Kinematics of rigid bodies. Principles of preliminary work. Principles of variability of mechanics. Simple differential secondary series equations with constant coefficients.

Banach, Stefan. Wstęp do teorii funkcji rzeczywistych.
 [Introduction to the theory of real functions]. Monografia Matematyczne. Tom XVII. Polskie Towarzystwo Matematyczne, Warszawa-Wrocław, 1951. iv+224 pp.

The book contains the first part of a manuscript of Banach written before World War II, and planned as a two volume text on the theory of functions of real variables. The first part was in print in Cracow at the outbreak of the war but both the type and the manuscript were destroyed by the German occupation authorities. A copy of the first 10 proof sheets survived, however, and is now edited by Orlicz and Aleksiewicz in the present volume.

The contents are as follows: Ch. I: Abstract set theory (includes a brief introduction to mathematical logic). Ch. II: Limits of sequences. Ch. III: Point-sets (a study of fundamental topological properties of sets contained in the n -dimensional euclidean space E^n). Ch. IV: Functions on E^n (includes a discussion of curves in E^n). Ch. V: Riemann's integral (includes multiple integrals and the theory of Jordan's measure).

The presentation is distinguished by the conciseness and elegance, characteristic of Banach. S. Ulam.

Source: Mathematical Reviews,

Vol. 13, No. 7

Smul

BANACH, STEFAN

Banach, Stefan. Mechanics. Translated by E. J. Scott.
Warszawa: Matematyka, 1951. Tom XXIV. Polakie To-
warzystwo Matematyczne. Warszawa-Wroclaw, 1951.
iv+546 pp.

This book contains the author's lectures in mechanics, given for many years at the Jan Kazimierz University and the Lawow Polytechnic Institute. It is a textbook on the mechanics of particles and rigid bodies, well printed and illustrated with diagrams, covering the traditional field for general university requirements, including those of engineering students. The chapters deal with theory of velocities, kinematics of a point, dynamics of a material point, mechanics of masses, systems of material points, statics and dynamics and dynamics of a rigid body, virtual work, mechanics of holonomic systems, variational principles of mechanics. The English-speaking reader must of course accommodate himself to the use of left handed axes, and this is no great hardship; however this is combined with the rather confusing convention that a right-handed rotation is positive, that the formula for the velocity of a point of a spinning body is $\mathbf{v} = \mathbf{r} \times \boldsymbol{\omega}$ instead of $\mathbf{v} = \boldsymbol{\omega} \times \mathbf{r}$, as given in English texts, and also in French ones, where the left-handed axes are used with the more natural convention that a left-handed rotation is positive. The confusion in the reader's mind is increased by a misprint in line 9, p. 46, where the order in the vector product is reversed. Engineering students develop their understanding of mechanics by working through many special problems, the large amount of the

Source: Mathematical Reviews,

Vol 13, No 3

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text devoted to the solution of such problems should give them the necessary experience, although it might have been well to include some unsolved exercises to test their power. But anyone interested in the logical structure of mechanics turns to the general theory underlying the problems, and, although the arguments are in general clearly and explicitly stated, one can hardly accept the statement (p. 73) that if a material point is at rest, then it is said to be in equilibrium. The same statement is repeated (p. 234) with reference to bodies. On p. 287 it is stated that if a system of rigid bodies is in equilibrium, the sum and total moment of the external forces are zero; this is followed by the statement that this condition is only sufficient, but not necessary for equilibrium (sufficient and necessary should be interchanged). The potential V is defined so that force is its gradient. Thus when potential energy is introduced, it is $-V$ and the kinetic potential is $W = E + V$ and the Hamiltonian $H = E - V$, E being the kinetic energy. This deviation from what is now a fairly well standardised notation seems unnecessary. But apart from these criticisms, the book contains a complete and careful exposition of mechanics within the bounds of variations is more logical than is usual in comparable books. One notational device seems worthy of general adoption: differentiation with respect to the time is indicated by a dot $\dot{}$, superscript position following the differentiated quantity, instead of above it.

J. L. Synge (Dublin).

Source: Mathematical Reviews,

Vol 13

No. 7

BANACH, STEFAN.

Rachunek różniczkowy i całkowy. Wyd. 5. popr. Warszawa, Państwowe
Wydawn. Naukowe. Differential and integral calculus. 5th rev. ed.
diagrams., index.
Vol. 1. 1955. 305 p.
Vol. 2. 1955. 273 p.

SOURCE: East Europeans Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

BANACH, STEFAN

SCIENCE

BANACH, STEFAN. Mechanika. Wyd. 4, zmienione. Warszawa, Panstwowe
Wydawn. Naukowe, 1956. 558 p. (Biblioteka matematyczna, t. 13)

Monthly List of East European Accessions (EEAI) LC. Vol. 8, No 4,
April 1959, Unclass.

BANACH, Stefan; BIDZINSKI, Jerzy; MAZUROWSKI, Witold

Trauma as a cause of prolapse of the nucleus pulposus of the intervertebral disk. Chir. narzad. ruchu ortop. pol. 28 no.4:377-382 '63.

1. Z Kliniki Neurochirurgii AM w Warszawie p. o. kierownika kliniki: prof. dr L. Stepień.

(INTERVERTEBRAL DISK DISPLACEMENT)
(WOUNDS AND INJURIES)

BANACHOWSKA, F.

JAKIMOWICZ, Wladyslaw; BANACHOWSKA, F.; (Gdansk); DOBROWOLSKA, B. J.;
GOLDSZTAJN, M., (Krakow); CZARSKI, Z., (Lublin); KUBERSKI, Z.;
SULAT, H.; SZULC, J., (Lodz); ZIMKIEWICZ, W.; SIEDEL-
KOLODZIEJOWA, A., (Poznan); MICHALOWICZ, R., (Szczecin);
DOWGIALLO, M.; PUCILOWSKA, K., (Warszawa); GAJ, J., (Wroclaw);
CHLOPICKI, Wl., (Zabrze).

Diagnostic statistics from neurological clinics during 1953.
Neur. &c. polska 6 no.4:479-486 July-Aug 56.

(NERVOUS SYSTEM, dis.
diag. statist. (Pol))

BANACHOWSKA F.
EXCERPTA MEDICA Sec 11 Vol.11/9 O.R.L. Sep 58

1858. PARALYSIS OF VIIth AND VIIIth NERVES IN THE COURSE OF ALBERS-SCHÖNBERG'S DISEASE - Porażenie nerwu VII i VIII w przebiegu choroby Albers-Schönberga - Banachowska F. and Ruszel J. - OTO-LARYNG. POL. 1957, 11/4 (413-416)

The authors present a case of paralysis of the VIIth and VIIIth nerves in the course of Albers-Schönberg's disease, with typical lesions in the bones, characteristic for that disease. In the above-described case, due to an excessive calcification of the pyramids of the temporal bones and to a considerable stenosis of the internal meatuses, especially the right, a pressure on the VIIth and VIIIth nerves resulted. The complex of paralyses in the course of Albers-Schönberg's disease described here is very rare.

Z Kliniki Neurologicznej AMG Kierownik: prof. Z Majewska i z Kliniki
Otolaryngologicznej AMG Kierownik: prof J. Iwaszkiewicz.

RAMACHOWSKA, Franciszka

~~Case of subarachnoid hemorrhage of the spinal cord. Neur. & Polska~~
8 no.2:189-192 Mar-Apr '58.

1. Z Kliniki Chorob Nerwowych A.M. w Gdansk. Kierownik: prof.
Z. Majewska.

(SUBARACHNOID HEMORRHAGE, case reports
localization in spinal cord, atypical case (Pol))

KICINSKA, Maria; DOBRZYNSKA, Leokadia; BANACHOWSKA, Franciszka

Symptomatology of temporal lobe seizures in children on the basis of our own material. Neurol. neurochir. psychiat. Pol. 15 no.3:391-393 My-Je '65.

1. Z Kliniki Chorob Nerwowych AM w Gdansk (Kierownik: prof. dr. Z. Majewska).

BANACHOWSKA, Franciszka; GWOZDZIEWICZ, Jerzy

Effect of music on the rehabilitation of children with choreo-athetosis. 1. Effect of rhythmic stimuli on the frequency of involuntary movements in choreo-athetosis syndrome. Neurologia etc. polska 11 no.2:187-197 Mr-Ap '61.

1. Z Kliniki Chorob Nerwowych AM w Gdansk Kierownik: prof. dr Z. Majewska.

(ATEETOSIS ther) (CHOREA ther) (MUSIC)

KICINSKA, Maria; BANACHOWSKA, Franciszka; DOERZYNSKA, Leokadia

Our observations on so-called spontaneous epilepsy in children. Neurol. neurochir. psychiat. pol. 13 no. 6:807-809 N-D'63

Clinical morphology of epileptic seizures in children less than 2 years of age. Ibid: 811-813

1. Z Oddziału Neurologii Dziecięcej im. J.Korczaka Kliniki Chorob Nerwowych AM w Gdansk ; kierownik: prof.dr. Z.Majewska.

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BANACHOWSKA, Franciszka; DOBRZYNSKA, Leokadia; KICINSKA, Maria

Attempted classification of epilepsy in children in accordance with our material. Neurol. neurochir. psychiat. pol. 13 no.6: 769-775 N-D'63

1. Z Wojewodzkiej Przychodni Zdrowia Psychicznego w Gdansk (kierownik poradni p/pedagogicznej: F.Banachowska) i z Oddzialu Neurologii Dzieciecej im. Janusza Korczaka Kliniki Neurologicznej AM w Gdansk (kierownik: prof.dr. Z.Majewska).

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SZELOZYNSKA, Katarzyna; BANACHOWSKA, Franciszka

Epileptic seizures as the initial sign of late infantile form of cerebretinal degeneration (Bielschowsky). Pediat. Pol. 40 no.8:861-863 Ag '65.

1. Z Oddziału Neurologii Dziecięcej im. Janusza Korczaka Kliniki Neurologicznej AM w Gdansk (Kierownik: prof. dr. med. Z. Majewska) i z Wojewodzkiej Poradni Zdrowia Psychicznego w Gdansk (Kierownik: lek. M. Sielicka).

BANACKY, Vladimir

Information on the Morava River Terraces in the southwestern part of Zahoraka nizina. Geol prace 64:59-65 '63.

1. Dionyz Stur Geological Institute, Bratislava.

RUMANIA

OLTEANU, M., Lieutenant-Colonel, Medical Corps; BOERAS, F., Captain, Medical Corps; BANACU, T., Captain, Medical Corps; POLOJINTEV, G., Major, Medical Corps; BAIDAN, N., Captain, Medical Corps; and CUPSA, V., Medical Corps.

"Transplantation of the Artificial Lacrimal Sac (Autografted with a Buccal Mucosa) and Rhinostomy"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 247

Abstract: Data on surgical technic in 5 patients, 2 with congenital absence of the lacrimal ducts and 3 with traumatic lesions thereof; good results confirmed by 3 to 12 months follow-up in 4 cases, 1 failure in a patient in whom poor attachment of the drainage tube brought about obstruction of the newly created duct.

BANADICS, Istvan

History of the Bekes County forests as reflected in silviculture.
Erdo 11 no.11:486-489 N '62.

1. Bekes megyei Allami Erdogazdasag erdomuvelesi csoportvezetoje,
Gyula.

BANADICS, Istvan; SZASZNE HOLLOS, Eva, erdőmérnök

Afforestation carried out by using the county investment loan and some conclusions which can be drawn from it in Békés County. Erdo 13 no.3:107-112 Mr '64.

1. Silvicultural Group Head, Békés County State Forestry, Gyula (for Banadics).
2. Békés County State Forestry, Gyula (for Szaszne Hollos).

SOV/84-58-4-17/48

AUTHORS: Matviyenko, A., Candidate of Economic Sciences,
Suleymanov, M., Chief, Department of Economics and Planning,
~~Banadik~~ A., Engineer-Economist, and
Brykalov, V., Engineer (Kiyev)

TITLE: Advantages of Cooperation Between Repair Establishments
(Vygody kooperirovaniya remontnykh predpriyatiy)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 4, p 18 (USSR)

ABSTRACT: The authors refer to the duplication and inadequate utilization of facilities and premises existing at the the Aircraft Repair Bases (ARB) and the Aircraft Maintenance Workshops (IERM) of the same airport. A redistribution of tools and equipment is advocated to reduce the IERM to pure maintenance work. The ARB, on the other hand, should take over all repair work. In connection with the introduction of new flying equipment, a merger of the IERM and the ARB into a single "technical base" is suggested for the future. Two diagrams accompany the text, showing the comparative utilization of premises and equipment in the IERM and ARB of the same airport.

Card 1/1

1. Aircraft--Maintenance 2. Airports--Organization

BANAITIS, J.; VALENTINAVICIUS, A.

Investigating the increase in the resistance to fire of
heat-insulating reed-peat boards. Trudy AN Lit. SSR. Ser.
B no.2:253-264 '62. (SIRA 18:2)

1. Institut stroitel'stva i arkhitektury AN Litovskoy SSR.

BANAKH, L.YA.

PHASE I BOOK EXPLOITATION SOV/4415

Akademiye nauk SSSR. Institut mashinovedeniya
Problemy prochnosti i mashinostroyeniya. YEP. 6 (Problems of
Strength in Machine Building No. 6). Moscow, 1960. 87 p.
3,000 copies printed.

Resp. Ed.: P. N. Dimentberg, Doctor of Technical Sciences;
Ed.: Publishing House: P. N. Zolotov, Tech. Ed.: I. P.
Koval'skaya.

PURPOSE: This collection of articles is intended for engineers
dealing with the problem of machine vibrations.

COVERAGES: The collection contains works which were originally
presented at the 1958-59 1 Seminar prochnosti i mashinostroyeniya
mashinovedeniya SSSR (Scientific Council and Seminar for
Strength in Machine Building of the Institute of Science of Machines,
Technical Sciences, USSR), in 1958-59. The following prob-
lems were investigated: vibrations in machines, bearings of
flexible rotors (taking friction into account), the effects of
flexible rotors on flexible shaft connected to the engine, vibra-
tions of a shaft with clearance, determination of frequency
and mode of free vibrations of variable cross-section bars
by means of special functions, and the calculation of self-
excited vibrations in a computer system. No personalities
are mentioned. References accompany individual articles.

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AVAILABILITY: Library of Congress
Card 3/3
YK/4415/60
12-19-60

BANAKH, I. Ya.; DIMENTBERG, F.M.; ZVINOGRODSKIY, N.V.

Vibrations of a heavy shaft with distributed mass in the presence
of a gap in one of the bearings. Probl.proch.v mashinostr.
no.6:68-88 '60. (MIRA 13:9)

(Shafting--Vibration)

S/179/60/000/006/013/036

E191/E135

26.2/20

AUTHORS: Banakh, L.Ya., and Dimentberg, F.M., (Moscow)

TITLE: Flexural Vibrations of a Rotating Shaft Carrying a
Component in Which the Values of the Principal Central
Mass Moment of Inertia are Unequal

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Mekhanika i mashinostroyeniye, 1960, No. 6,
pp. 91-97

TEXT: The component, for example, a solid disc with a broad
recess milled across the face has three different principal mass
moments of inertia. It is assumed mounted in the centre of the
shaft which is simply supported on two bearings. One principal
axis of inertia of the disc coincides with the shaft axis. The
other two principal axes of the disc coincide with the two
principal axes of the shaft stiffnesses, which are also unequal.
In the presence of both external and internal friction, there are
several separate regions of instability. These are examined
geometrically in the space of the complex stability parameter,

Card 1/3

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S/179/60/000/006/013/036
E191/E135

Flexural Vibrations of a Rotating Shaft Carrying a Component in which the Values of the Principal Central Mass Moment of Inertia are Unequal

namely the ratio of the coefficients of the internal and external friction. The displaced position of the component is defined with reference to different axes. The Lagrange functions are formulated. The internal friction is assumed to be proportional to the relative angular velocity of rotation about a transverse axis of the cross-section of the shaft. The external friction moment is proportional to the absolute angular velocity of rotation of the component about a transverse axis. The dissipation function is formulated and the equations of flexural vibrations of the shaft are stated. Substitution of complex exponential functions as solutions leads to the characteristic frequency equation. This equation is quadratic in the ratio of damping coefficients. Examination of the stability region proceeds by studying the complex plane of the damping coefficient ratio. In the general case, there are either four or two

Card 2/3

S/179/60/000/006/013/036
E191/E135

Flexural Vibrations of a Rotating Shaft Carrying a Component in Which the Values of the Principal Central Mass Moment of Inertia are Unequal

non-zero solutions of the frequency equation but there are always four regions of stability. A numerical example is given. Two special cases are considered, namely when the mass moment of inertia about the shaft axis is zero, and when it is equal to the sum of the remaining mass moments of inertia. In the latter case, the motion is stable.

There are 9 figures and 2 references: 1 Soviet and 1 German. VC

SUBMITTED: April 15, 1960

Card 3/3

BANAKH, L.Ya. (Moskva); DIMENTBERG, F.M. (Moskva); ZVINOGRODSKIY, N.V.
(Moskva)

Origination of a parametric resonance in a horizontal shaft with
a weight and supported by a bearing with a radial gap. Izv.AN
SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.6:159-162 N-D '61.
(MIRA 14:11)

(Shafting)

BANAKH, L.Ya. (Moskva)

Some phenomena occurring during the rotation of shafts in bearings
with gaps. Mashinovedenie no.1:70-77 '65.

(MIRA 18:5)

MONASTYRSKIY, R.Ya (L'vov); OSNOS, M.L., dotsent (L'vov); MELAMUD, M.Ya.
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SURNAME, Given Names

Country: Rumania

Academic Degrees: -not given-

Affiliation: -not given-

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AUTHORS: Kozłowski, Mieczysław, Banaś, Alfred
TITLE: Basic chromite-magnesite mass for refractory linings to
induction furnaces
PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 355, abstract
22K252 (Pol. pat. 44922, September 21, 1961)

TEXT: The patent covers a refractory mass for lining steelmaking induction furnaces. The starting materials are chromite-magnesite tailings, calcined magnesite and a small amount of fluorite. A specific feature of the mass is its granulometric composition: chromite-magnesite tailings: 9-13 % with grain size 0.6-0.84 mm, 22-26 % with 0.84-1.68 mm, 18-22 % with 1.68-3.36 mm, 8-12 % with 1.68-3.36 mm and 8-12 % with 3.36-4.0 mm; magnesite: 28-32 % with grain size 0-0.20 mm and 3.5-5.5 % with 0.20-0.60 mm; fluorite 0.5 % with grain size 0-0.20 mm, all in wt.% related to the finished dry mixture. The authors observe that, used as a lining, this mass will increase the life of a furnace 4 times. [Abstracter's note: Complete translation.]

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BANAS, J. CA 9 Stop hardening of steel in high-temperature baths. 1. Fetschenko-Czupinski and J. Banas. <i>Panstwowe Wydawnictwo Naukowe, Prace Badawcze</i> 1937, No. 6, 5-42; <i>Chem. Zentr.</i> 1939, I, 3443.—A C steel contg. C 0.64, Mn 0.68, Si 0.68, P 0.022 and S 0.018% was annealed in the elec. furnace; then quenched in machine oil at 20-120°, in tallow at 150-200°, in 40% KOH at 150-200°, or in a 1:1 mixt. of NaNO₃ and KNO₃ at 250-400°. After quenching, the steel was cooled in air, polished and the mech. properties were tested. Quenching temps. greater than 200° reduced the hardness and increased the impact resistance. In baths having low cooling rates the hardness increased with increasing temp. while the brittleness simultaneously increased. At temps. greater than 200-250° the tensile strength decreased. The elongation remained practically unchanged at 200° but increased sharply with further increase in temp. As the period of quenching was increased, the hardness and brittleness at first decreased, then increased, and after passing through a max. decreased again. In general the mech. properties of steels treated as described above were almost the same as those obtained by normal tempering at the same temp. Exceptions to this were the elongation and impact resistance, which were both higher, the latter being 1.5-3 times as high as with the usual treatment. The process can be recommended as a substitute for cementation or as an auxiliary process, especially for pieces of small dimensions. M. G. Moore. <i>Chem. Abstr.</i> 1938, 32, 1000 (1937) 10000.																									
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Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54290

Author : Banas'.

Inst : ~~XXXXXXXXXX~~

Title : Corrosion Prevention in Chemical Industry.

Orig Pub : Chemik, 1957, 10, No 12, 370-371

Abstract : A report on the October 1957 conference of organic chemists that dealt with the problems of corrosion prevention. The discussion dealt with the problems of the wide implantation of plastics and vanishes into various industries.

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AUTHOR: Banas, Julius; Zabudan, Milan

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TITLE: Continuous recording of spectra with a DRg-140 recording instrument and a NZG-319 single-crystal gamma-II scintillation spectrometer using a NUG-216 Klasica level of radioactivity

SOURCE: Jaderna energie, no. 11, 1965, 428-429

TOPIC TAGS: radiation source, scintillation spectrometer, gamma spectrometer

ABSTRACT: An instrument is described, which is simple, sufficiently sensitive, and can follow with great precision the course of the spectrum of a measured radiation source. Any integrator can be used as the integration circuit. The possibilities of application of the instrument in the laboratory with only a small financial outlay is pointed out. This paper was presented by O. Novakova. Orig. art. has: 3 figures and 1 table. [NA]

SUB CODE: 20 / SUBM DATE: none / OTH REF: 001

Card 1/1

UDC: 539.166.07

BRUTOVSKY, Milan, inz.; ZADUBAN, Milan, inz.; BANAS, Julius, inz.;
LIPTAKOVA, Gizela, prom. biol.

Contribution to the determination of ¹³¹J by means of the
extraction method. Chem zvesti 19 no.6:470-474 '65.

1. Radiobiological Division of the Institute of Experimental
Biologie of the Slovak Academy of Sciences, Kosice, Kuzmanyho
12 (for Brutovsky, Zaduban and Banas). 2. Chair of Biology
of the Pavol Jozsef Safarik, Kosice, Kuzmanyho 12 (for
Liptakova). Submitted September 28, 1964.

L 38932-66

ACC NR: AP6029723

SOURCE CODE: CZ/CO43/65/000/012/0925/0930

AUTHOR: Zaduban, Milan (Engineer; Kosice); Brutovsky, Milan--Erutovski, M.
(Engineer; Kosice); Banas, Julius--Banyas, Yu. (Engineer; Kosice)

ORG: Radiobiological Department, Institute of Experimental Biology, SAV, Kosice
(Radiobiologické oddelenie Ústavu experimentálnej biológie SAV)

TITLE: Chromatographic separation of sup 131 I sup -, 131 IO sup - sub 3, and sup 131 IO sup - sub 4

SOURCE: Chemicke zvesti, no. 12, 1965, 925-930

TOPIC TAGS: paper chromatography, ion exchange, chemical separation

ABSTRACT: The separation was conducted on Whatman Paper #1, both on untreated paper, and on paper which was treated with ferric hydroxide and barium sulfate, and also by a liquid anion exchanger (Anex PC-Amin KM sec.). The best separation was obtained when the paper was treated with ferric hydroxide and the following mobile phases used: ethanol-water-conc. ammonia, 0.01 NaOH, and distilled water. Orig. art. has: 3 figures and 2 tables. [JPRS: 34,669]

SUB CODE: 07 / SUBM DATE: 26Aug65 / ORIG REF: 002 / OTH REF: 008

Card 1/1

BANAS, M.

"Some data on magnetite and fluorite deposits in Kopaliny of Lower Silesia."p. 65

GEOLOGIA.

(Akademia Gorniczo-Hutnicza w Krakowie) Krakow, Poland. No. 2, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

BANAS, Marian, mgr., inz.

Methods for measuring the reflecting power of minerals in reflected light. Rudy i metale 6 no.12:537-541 D '61.

BANAS, Marian, mgr., inz.

Methods for testing the hardness of minerals. Rudy i metale 7 no.1:
31-34 '62.

RANAS, Marian, dr inz.; KNAPIK, Stefan, dr inz.

Contribution to the history of applied geology. Rudy i
metale 9 no.6:317-321 Je '64.

BANAS, M.

Nasturan from the metamorphic of Snieznik Klodzki in the Sudetes. Bul geolog PAN 12 no.3:169-172 '64.

1. Department of Ore Deposits of the School of Mining and Metallurgy, Krakow. Presented by A. Bolewski.

GERCHIKOV, Ye.Ya.; KVASHA, I.N.; ROYTBLET, M.M.; IVANOVA, V.F.; BANAS, N.A.;
IVANOV, D.A.

Papers presented by the participants of a conference. Vest. svyazi
24 no.6:4-10 Je '64. (MIRA 17:11)

1. Nachal'nik upravleniya elektrosvyazi i radiofikatsii Ministerstva
svyazi UkrSSR (for Gerchikov). 2. Zamestitel' ministra svyazi BSSR
(for Kvasha). 3. Glavnyy inzh. Stavropol'skogo krayevskogo upravleniya
svyazi (for Roytblat). 4. Glavnyy inzh. Tselinnogo krayevogo upravleniya
svyazi (for Ivanova). 5. Glavnyy inzh. Altayskogo krayevogo upravleniya
svyazi (for Banas). 6. Nachal'nik Leningradskey oblastnoy direktzii
radiotranslyatsionnoy seti (for Ivanov).

COMMON ELEMENTS		RARE EARTH ELEMENTS		METALS		NON-METALS		GASES		LIQUIDS		SOLIDS		COMPOUNDS		OTHERS		TOTAL	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ANALYSIS 1. ANALYST BANAS, N. S. 2. TITLE *Anti-Friction Properties of Aluminium Alloys. N. S. Banas (Aristation, Prom., 1941, (22), 12-14).—[In Russian.] Anti-friction properties of a large number of industrial aluminium alloys were investigated. A bronze containing copper 88.36, tin 9.57, and zinc 1.0% was taken for purposes of comparison. The alloy AN5 (containing copper 4.20, silicon 0.38, magnesium 1.00, iron 0.44, and nickel 1.85%) was found to be most suitable for the replacement of bearing bronzes. The alloy AS2 (containing copper 8.44, silicon 1.75, and bearing bronzes. The alloy AK1 (containing copper 3.92, silicon 0.58, manganese 0.00, magnesium 0.03, and iron 0.46%) can also be used as bearing alloys. 3. SUMMARY D. A.																			
4. ANALYST'S INSTITUTION 5. ANALYST'S ADDRESS 6. ANALYST'S PHONE 7. ANALYST'S TELEGRAPH 8. ANALYST'S TELETYPE 9. ANALYST'S RADIO 10. ANALYST'S CABLE 11. ANALYST'S AIR MAIL 12. ANALYST'S REGISTERED MAIL 13. ANALYST'S REGISTERED TELETYPE 14. ANALYST'S REGISTERED RADIO 15. ANALYST'S REGISTERED CABLE 16. ANALYST'S REGISTERED AIR MAIL 17. ANALYST'S REGISTERED REGISTERED MAIL 18. ANALYST'S REGISTERED REGISTERED TELETYPE 19. ANALYST'S REGISTERED REGISTERED RADIO 20. ANALYST'S REGISTERED REGISTERED CABLE																			

RECEIVES AND PROPERTIES INDEX																									
CA BANAS, P.S.																									
Aluminum-iron alloys for bearings. P. S. Banas. <i>Arsipromyshtennost</i> 1939, No. 3, 34-9.—Al-Fe alloy containing 10% Fe and 0.5% Mg and possessing properties suitable for bearings in aero engines are best prepd. by centrifugal casting at 810-840°. After pouring, the metal should be cooled intensively to obtain a fine grain and to eliminate liquation of the Fe compds. The Fe should be introduced into the alloy directly or in the form of an Al-Fe alloy contg. 15-20% Fe. The alloy should be forged or pressed to improve its structure. Forging should be done at 500-550°. The material was suitable for bearings in aero engines and in Diesel engines. B. Z. Kamich																									
ASB-5LA DETALLURGICAL LITERATURE CLASSIFICATION																									

ALEKSEYENKO, M.F.; BANAS, P.S.; BOBKOV, T.M.; NATAPOV, B.S.; RYABTSEV, S.I.;
SKLYAROV, P.I.; FRANTSOV, V.P.; YUDOVICH, S.Z.; PRONIN, V.Ye.

DI-1 stainless steel. Stal' 23 no.2:159-162 F '63. (MIRA 16:2)
(Steel, Stainless)

BANASCHESKI, B.

On transfinite iteration. In English. p. 225.

FUNDAMENTA MATHEMATICAE. (Polska Akademia Nauk) Warszawa, Poland.
Vol. 46, no. 2, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2,
Feb. 1960

Uncl.

BANASKVICH, S. N .

DECEASED

1963

Radium Physics

c. 162

BANASHEK, A. Cand Chem Sci -- "Study ^{ies} in the series of 2-pyridyl- Δ^2 -thiazolines and thiazolidines and their 4-carboxylic acids." Mos, 1960 (Min of Health USSR. All-Union Sci Res Chem-Pharm Inst im S. Ordzhonikidze "VNIKhFI") (KL, 1-61, 181)